

Knight/Jacobs Joint Venture
701 Scarboro Road; MS 6476
Oak Ridge, TN 37830
865-241-9433; fax 865-241-3400



PAGE 1 of 6

DCN NUMBER:
T1-SU1-08

RFI NUMBER

DESIGN CHANGE NOTICE

CONTRACT NO: 00F-1823-08	PACKAGE TITLE AND DATE Site Utilities – BOA – 10/30/2001	DWG (SNS DOC#): See below	SHEET NO: See below	REV NO 0
KAT PROJ#: CO7022.20	Site Utilities – Land Improvements – 2/8/2002	SPEC NO: See below	SECTION: NA	

REASON FOR CHANGE: To incorporate changes to the site utilities package necessary for DVD T2A-09 (Site Utilities – Power Feeder to CNMS Chillers and Grinder Pumps). To incorporate changes to the site utilities package necessary to provide services to the CNMS Building (Building 8610).

OTHER DOCUMENTS AFFECTED BY THIS CHANGE: As noted below.

DESCRIPTION OF CHANGE: As noted below.

MECHANICAL SECTION

SPECIFICATIONS

1) None

SHEETS

- Sheet UHU2.61.H4, SNS Document Control Number 108040000-U8E-8000-A041.
 - Expand the portion of work that is shown near the intersection of matchline to drawing UHU2.61.J4 and drawing UHU2.61.H5 to clarify work being done near the South-West corner of sector H4, for the extension of site utilities piping to the CNMS Building (Building 8610).
- Sheet UHU2.61.H5, SNS Document Control Number 108040000-U8E-8000-A042.
 - Expand the portion of work that is shown near the intersection of matchline to drawing UHU2.61.H4 and drawing UHU2.61.J5 to clarify work being done near the North-West corner of sector H5, for the extension of site utilities piping to the CNMS Building (Building 8610).
- Sheet UHU2.61.J4, SNS Document Control Number 108040000-U8E-8000-A234.
 - This is a new sheet added to the project to show scope of work to provide site utility piping to the CNMS Building (Building 8610).
- Sheet UHU4.61.09, SNS Document Control Number 108040000-U8E-8000-A096.
 - Added Enlarged Plan 2 to the sheet to show site utilities piping at interface to the CNMS Building (Building 8610) mechanical utilities.
 - Added keynote 6 to the sheet.
- Sheet UHU6.61.04, SNS Document Control Number 108040000-U8E-8000-A057.
 - Modified detail 7 to revise the 16" CHWS and 16" CHWR pipes leaving the valve access utility vault to 12" CHWS and 12" CHWR, as is required to serve the CNMS facility.
- Sheet UHU7.61.01, SNS Document Control Number 108040000-U8E-8000-A060.
 - Added depiction of process waste piping from the existing valve access utility vault to the CNMS Building (Building 8610).
 - Modified indicated flows to account for expected flows from the CNMS Building (Building 8610).

PREPARED BY:
CHRISTOPHER FILLER

CHECKED BY:
JAMES WERNICKE

RESPONSIBLE DESIGNER:
CHRISTOPHER FILLER

MECHANICAL SECTION (CONTINUED)

7. Sheet UHU7.61.03, SNS Document Control Number 108040000-U8E-8000-A062.
- a) Added depiction of chilled water supply and return piping from the existing valve access utility vault to the CNMS Building (Building 8610).
 - b) Deleted the end of line minimum flow bypass previously shown within the valve access utility vault where connection is being made to serve the CNMS Building (Building 8610).
 - c) Modified indicated flows to account for expected flows from the CNMS Building (Building 8610).
 - d) Deleted reference to keynote number 3, and modified the keynote to "NOT USED." The keynote is no longer referenced.
8. Sheet UHU7.61.05, SNS Document Control Number 108040000-U8E-8000-A064.
- a) Added depiction of compressed air piping from the existing valve access utility vault to the CNMS Building (Building 8610).
9. Sheet UHU8.61.02, SNS Document Control Number 108040000-U8E-8000-A235.
- a) This is a new sheet added to the project to show scope of work to provide site utility piping to the CNMS Building (Building 8610).

ATTACHMENTS:

Sketch Number:	Description:	Drawing Reference
None – Issued as full sheet	SITE UTILITIES MECHANICAL PLAN BLOCK H4	UHU2.61.H4 / Rev. 3
None – Issued as full sheet	SITE UTILITIES MECHANICAL PLAN BLOCK H5	UHU2.61.H5 / Rev. 3
None – Issued as full sheet	SITE UTILITIES MECHANICAL PLAN BLOCK J4	UHU2.61.J4 / Rev. 0
None – Issued as full sheet	SITE UTILITIES MECHANICAL ENLARGED PLANS SHEET 9	UHU4.61.09 / Rev. 2
None – Issued as full sheet	SITE UTILITIES MECHANICAL DETAILS SHEET 4	UHU6.61.04 / Rev. 3
None – Issued as full sheet	SITE UTILITIES MECHANICAL PROCESS WASTE SYSTEM FLOW DIAGRAM	UHU7.61.01 / Rev. 3
None – Issued as full sheet	SITE UTILITIES MECHANICAL CHILLED WATER DISTRIBUTION FLOW DIAGRAM	UHU7.61.03 / Rev. 2
None – Issued as full sheet	SITE UTILITIES MECHANICAL COMPRESSED AIR DISTRIBUTION FLOW DIAGRAM	UHU7.61.05 / Rev. 2
None – Issued as full sheet	SITE UTILITIES MECHANICAL PIPING PROFILES SHEET 2	UHU8.61.02 / Rev. 0

END OF MECHANICAL SECTION

PREPARED BY:
CHRISTOPHER FILLER

CHECKED BY:
JAMES WERNICKE

RESPONSIBLE DESIGNER:
CHRISTOPHER FILLER

ELECTRICAL SECTION

SPECIFICATIONS

1. No items.

SHEETS

- 1) Sheet UEL1.61.01, SNS Document Control Number, 108040000-U8E-8000-A066.
 - a) Add underground 15kV duct bank from CU-SS4 to CU-SS5. Showed new substation CU-SS5 and new air-cooled chillers to the east of CUB.
- 2) Sheet UEL2.61.G4, SNS Document Control Number, 108040000-U8E-8000-A069.
 - a) Add underground 15kv duct bank from CU-SS4 and CU-SS5. Added 15kV cable from TVA switchyard to CU-SS5.
- 3) Sheet UEL6.61.04, SNS Document Control Number, 108040000-U8E-8000-A080
 - a) Add underground duct bank section 50 and 15 kV feeder 22E.
- 4) Sheet UEL7.61.01, SNS Document Control Number, 10804000-U8E-8000-A086
 - a) Add conductors for 15kV feeder 22E at R22 radial feeder switch and substation CU-SS5
- 5) Sheet UEL9.61.01, SNS Document Control Number, 108040000-U8E-A093
 - a) Add 15 kV feeder P0064 in feeder schedule.

ATTACHMENTS:

Sketch Number:	Description:	Drawing Reference
NONE – ISSUED AS FULL SHEET	SITE UTILITIES, ELECTRICAL OVERALL PLAN	UEL1.61.01 / Rev.3
NONE – ISSUED AS FULL SHEET	SITE UTILITIES, ELECTRICAL PLAN BLOCK G4	UEL2.61.G4 / Rev.3
NONE – ISSUED AS FULL SHEET	SITE UTILITIES ELECTRICAL DETAILS	UEL6.61.04/ Rev.3
NONE – ISSUED AS FULL SHEET	SITE UTILITIES ELECTRICAL SINGLE LINE DIAGRAM	UEL7.61.01 / Rev.3
NONE – ISSUED AS FULL SHEET	SITE UTILITIES ELECTRICAL FEEDER SCHEDULE	UEL9.61.01 / Rev. 2

END OF ELECTRICAL SECTION

PREPARED BY:
VICTOR G. STEFFEN

CHECKED BY:
VICTOR G. STEFFEN

RESPONSIBLE DESIGNER:
VICTOR G. STEFFEN

LIGHTING SECTION

SPECIFICATIONS

1. No items.

SHEETS

- 1) Sheet ULT0.34.01 SNS Document Control Number, 108040000-U8E-8000-A143
 - a) Revised Drawing Index to reflect new Revision Numbers associated with DCN T1-SU1-08.
- 2) Sheet ULT3.34.J4 SNS Document Control Number, 108040000-U8E-8000-A156A
 - a) Changed requirement for roadway/parking lot lighting from complete installation to rough-in only. Deleted poles, luminaires, bases and wiring.
- 3) Sheet ULT3.34.J5 SNS Document Control Number, 108040000-U8E-8000-A157
 - a) Changed requirement for roadway/parking lot lighting from complete installation to rough-in only. Deleted poles, luminaires, bases and wiring.
- 4) Sheet ULT3.34.K4 SNS Document Control Number, 108040000-U8E-8000-A158
 - a) Changed requirement for roadway/parking lot lighting from complete installation to rough-in only. Deleted poles, luminaires, bases and wiring.
- 5) Sheet ULT3.34.K5 SNS Document Control Number, 108040000-U8E-8000-A159
 - a) Changed requirement for roadway/parking lot lighting from complete installation to rough-in only. Deleted poles, luminaires, bases and wiring.
- 6) Sheet ULT9.34.01 SNS Document Control Number, 108040000-U8E-8000-A161
 - a) Changed requirement for roadway/parking lot lighting from complete installation to rough-in only. Deleted poles, luminaires, bases and wiring.

ATTACHMENTS:

Sketch Number:	Description:	Drawing Reference
NONE – ISSUED AS FULL SHEET	LIGHTING KEY MAP AND DRAWING INDEX	ULT0.34.01/ Rev. 3
NONE – ISSUED AS FULL SHEET	LIGHTING PLAN BLOCK J4	ULT3.34.J4/ Rev. 3
NONE – ISSUED AS FULL SHEET	LIGHTING PLAN BLOCK J5	ULT3.34.J5/ Rev. 2
NONE – ISSUED AS FULL SHEET	LIGHTING PLAN BLOCK K4	ULT3.34.K4/ Rev. 2
NONE – ISSUED AS FULL SHEET	LIGHTING PLAN BLOCK K5	ULT3.34.K5/ Rev. 2
NONE – ISSUED AS FULL SHEET	LIGHTING SCHEDULES	ULT9.34.01/ Rev. 3

END OF LIGHTING SECTION

PREPARED BY:
R. BOOKER

CHECKED BY:
R. STEVENS

RESPONSIBLE DESIGNER:
R. STEVENS

SANITARY SEWER SECTION

SPECIFICATIONS

SPECIFICATIONS

- 1) Specification 02736, Rev 2, SNS Document Control Number 108000000TS0048R02
 - a) Added provisions for new grinder pump station at Building 8610.

SHEETS

- 1) Sheet USS0.34.01 SNS Document Control Number, 108040000-U8E-8000-A107
 - a) Revised Drawing Index to reflect new Revision Numbers associated with DCN T1-SU1-08.
- 2) Sheet USS3.34.H5 SNS Document Control Number, 108040000-U8E-8000-A115
 - a) Added 3" force main from grinder pump station at Building 8610.
- 3) Sheet USS3.34.J4 SNS Document Control Number, 108040000-U8E-8000-A231
 - a) New drawing showing 6" gravity sewer, grinder pump station and 3" force main for Building 8610.
- 4) Sheet USS3.34.J5 SNS Document Control Number, 108040000-U8E-8000-A226
 - a) Added 3" force main from grinder pump station at Building 8610.
- 5) Sheet USS4.34.06 SNS Document Control Number, 108040000-U8E-8000-A232
 - a) New drawing for 3" force main profile.
- 6) Sheet USS6.34.02 SNS Document Control Number, 108040000-U8E-8000-A121
 - a) Added new detail for 3" force main connection to gravity sewer manhole.
 - b) Revised Detail 2 to allow use on new 3" force main.
- 7) Sheet USS6.34.05 SNS Document Control Number, 108040000-U8E-8000-A233
 - a) New drawing showing details for grinder pump station at Building 8610.

ATTACHMENTS:

Sketch Number:	Description:	Drawing Reference
NO SKETCH	SANITARY SEWER KEY MAP & DRAWING INDEX	USS0.34.01 / 4
NO SKETCH	SANITARY SEWER PLAN H5	USS3.34.H5 / 2
	SANITARY SEWER PLAN J4	USS3.34.J4 / 0
	SANITARY SEWER PLAN J5	USS3.34.J5 / 1
	SANITARY SEWER PROFILES	USS4.34.06 / 0
	SANITARY SEWER DETAILS	USS6.34.02 / 2
	GRINDER PUMP STATION CNMS	USS6.34.05 / 0

END OF SITE SANITARY SEWER SECTION

PREPARED BY:
TED POLARI

CHECKED BY:
BEN NEMEC

RESPONSIBLE DESIGNER:
DENNIS HAMMAKER